

SRIKANTH

Senior Azure DevOps CICD Engineer

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PROFESSIONAL SUMMARY

- Around **8+ years** of experience in **Cloud/Azure/DevOps Engineer**, experienced in DevOps, Build/Release Continuous Integration, Continuous Deployment, Configuration Management, Disaster, and data recovery management on each packaging Quality Control.
- Worked with container-based technologies like **Docker, Kubernetes**.
- Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker** Containers.
- Experience in working with **Docker, ECS, Kubernetes, AWS Lambda** container services and successfully deployed images in the cloud environment for managing applications.
- Created Stored Procedure and Scheduled them in **Azure** Environment.
- Experience in administering and maintaining **Atlassian** products like **JIRA, bamboo, Confluence**.
- DevOps practice for **Micro Service** and docker based cluster using **Kubernetes** and spinnaker as Orchestrator on application development for cloud platforms using like Spring boot, **Microservices**.
- Building/Maintaining Docker container clusters managed by **AWS, Linux, Bash, GIT, Docker**. Utilized Kubernetes kops cluster and Docker for the runtime environment of the **CICD** system to build, test deploy.
- Automated Various infrastructure activities like **Continuous Deployment**, Application Server setup, Stack Monitoring using **Ansible Playbooks** and integrated **Ansible** with Jenkins also provisioned and patched servers using **Ansible**.
- Used monitoring tool like **Dynatrace, Splunk, Nagios**, Configured, and Managed Monitoring Tools such as **Nagios** for Resources Monitoring/Network Monitoring/Log Trace Monitoring.
- Proficient knowledge with **Helm charts** to manage and release of **helm** packages.
- Expertise with **Docker** images using a **Docker** file, worked on container snapshots, removing Images and managing Docker volumes.
- Orchestration of **Docker** images and Containers using **Kubernetes** by creating master and node.
- Good experience in writing **Helm Charts**, Kubernetes yaml files for deployment of microservices into **Kubernetes clusters**.

TECHNICAL SKILLS:

Cloud Environments	AWS, Azure, Google Cloud (GCP), Confluent Cloud, Kafka
Operating Systems	Red Hat Linux, CentOS 6 & 7, Ubuntu12.x, 13.x, 14.x, Windows 98, Vista, Windows Server 2003, 2008, 2012, VMware ESX and Mac OS.
Web/ Application Servers	Apache Tomcat, WebLogic, JBoss 5.x/6.x/7.x, Web Sphere Administration, IIS and Nginix.

Databases	MySQL, Oracle, MySQL, Mongo DB, PostgreSQL, RDS, Elastic ache
Version Control Tools	Subversion, TFS, GIT, GITHUB, SVN, Bitbucket.
Configuration Management	Ansible, Chef, Puppet, Atlassian
CICD Tools	Cloud Bees Jenkins/Hudson, GITHUB Actions, GitLab, Maven, SonarQube, Urban code Deploy (uDeploy)
Container Tools	Kubernetes, Docker, OpenShift
Monitoring Tools	Dynatrace, Grafana, Nagios, Splunk, AWS cloud watch, ELK, Azure Monitor
Scripting Languages	Ruby, Python, Golang, groovy, Unix Shell scripting, Node JS, XML, HTML, JAVA, JEE, JavaScript, Angular JS, Power Shell, JSON, YAML, AWS Lambda.
Bug Tracking & Testing tools	JIRA, J Unit, Selenium.
Networking	TCP/IP, NFS, DNS, VPN, DHCP, WAN, HTTP, LAN, FTP/TFTP, VMware nexus switch, IP Networking, F5 load balancer.

PROFESSIONAL EXPERIENCE

Senior Azure DevOps Engineer

Clover, Sunnyvale, CA

Jan 2022 - Till date

Responsibilities:

- Primarily responsible for **designing** and **implementing** the **architecture** to migrate the data from on premises to **Azure cloud**.
- Implemented containerized based applications on **Azure Kubernetes** by using **Azure Kubernetes service (AKS)**, **Kubernetes** Cluster, which are responsible for cluster management.
- Created the **Azure Kubernetes cluster** in different environments like **Dev**, **Prod** and **Sandbox** from scratch and configured the **network settings**.
- Deployed the **microservices** based on **Java** and **Python** into the **Kubernetes pods**.
- Deployed **Azure virtual machines** (VMs) and Cloud services into secure **VNets** with **Azure** internal **Load Balancer** and **subnets**.
- Designed and implemented the entire **Network architecture** in **Azure cloud** by creating **VNets**, **Subnets** and **Network Security Groups** (NSG).
- Integration of user facing elements developed by Front end team with serve side logic using **Node.js**.
- Virtual Network** to deploy agent nodes, **Ingress API Gateway**, **MySQL** Databases and **Cosmo DB** for stateless storage of external data, and setup reverse proxy **Nginx** in the cluster.
- Experience in writing **Infrastructure as a code (IAAC)** in **Terraform**, **Azure resource management**. Created reusable Terraform modules in both **Azure cloud** environments.
- Create and maintain highly scalable and fault tolerant multi-tier **AWS** and **Azure** environments spanning across multiple availability zones using **Terraform** and **CloudFormation**.
- Authored new suite of **disaster recovery** procedures covering a wide variety of scenarios including planned and unplanned failovers for critical machine-to-machine management console platform.

- Created Organization Related reports in Excel by pulling the data from **Kusto** and **SQL**. Write **Kusto (KQL)** and **Cosmos Queries (SCOPE)** and publish the data into **Power BI**.
- Designed and implemented streaming solutions using **Confluent Cloud Kafka** or **Azure Stream Analytics**, **Azure Event Hub**.

Senior Azure Kubernetes/DevOps Engineer

Cisco Systems, San Jose, CA

March 2019 – Dec 2021

Responsibilities:

- Working as **Kubernetes Administrator**, involved in configuration for web apps, **Azure App services**, **Azure Application insights**, **Azure Application gateway**, **Azure DNS**, **Azure traffic manager**, **App services**.
- Created Clusters using **Kubernetes** and worked on creating many pods, replication **controllers**, **replica sets**, services, deployments, labels, health checks and **ingress** by writing **Yaml** files.
- Primarily responsible for implementing containerized based applications on **Azure DevOps** and **Kubernetes** by using **Azure Kubernetes service (AKS)** Kubernetes Cluster, which are responsible for **cluster** management.
- Managed **Kubernetes** charts using Helm and created reproducible builds of the **Kubernetes** applications, templated **Kubernetes** manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helm** packages.
- Using **Docker** and **Kubernetes** heavily to manage micro services for development of continuous integration and continuous delivery.
- Designed and developed the automated deployment and scaling processes based on **Docker** and **Ansible** for all the services.
- Have built **Elastic search**, **Log Stash**, **Kibana (ELK)** for centralized logging and then store logs and metrics into S3 bucket using **Lambda** functions.
- Installed and configured **NGINX** for the running services.
- Managed host **Kubernetes** environment, making it quick and easy to deploy and manage containerized applications without container orchestration expertise.
- Managed local deployments in **Kubernetes**, creating local **sandbox** cluster and deploying application containers.
- Using Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
- Responsible for creating the **namespaces**, fixing the broken clusters for different teams.
- Designed and implemented automation deployment using **Urban Deploy code** to promote major releases, monthly releases and patches from Development, Integration, Staging/UAT and Production.
- Creating **JIRA confluence** articles for recent development performed, **POC** and tech designs.
- Worked on the Service now form enhancements for **AKS Namespace**, **AKS RBAC**, **AKS Key Vault** services.
- Installed, configure, test, monitor, upgrade, and tune new and existing **PostgreSQL databases**.
- Proficient in **Python**, **Shell Scripting**, **Terraform**, **SQL**.

- Deployed **Postgres SQL**, **Ansible AWX** into a specific namespace by supporting the **Ansible AWX** team.
- Created **JSON** payload to run a **Jenkins** job for the deployments into a **Kubernetes cluster**.

Environment: Azure, Terraform, Jenkins, Kubernetes, PostgreSQL, Docker, Spark Data Frame AP, Azure, Ansible, Jira, Confluence, PowerShell Windows, IIS, Python, Splunk, Grafana, Prometheus, Twist lock, Istio, Jenkins, git, Ansible.

AWS/Azure DevOps Engineer

Verizon, Irving, TX

July 2018 – Feb 2019

Responsibilities:

- Administering and supporting company's **AWS** and **Azure Kubernetes** infrastructure, ensuring it is secure, resilient and performance and responsible for complete **DevOps** activities and coordinating with development team.
- Installed, configure, test, monitor, upgrade, and tune new and existing **PostgreSQL databases**.
- Worked with API management with **AWS API** to manage resources on **AWS** for many services such as **EC2, S3, VPC, Cloud watch**, created **python** script using **AWS API Calls** to manage all resources deployed on AWS.
- Responsible to configure alert notification to monitor CPU metrics, VM health's and events logs.
- Deployed **VNETs** and site-site VPN using **PowerShell** and deployed VMs into various subnets and enabled communications between subnets.
- Configured **Amazon S3, Elastic Load Balancing, IAM** and **Security Groups** in Public and **Private Subnets in VPC**, created storage cached and storage volume gateways to store data and other services in the **AWS**.
- Worked on **Amazon EC2** setting up instances, **virtual private cloud (VPCs)**, and security groups and created **AWS Route53** to route traffic between different regions and used **BOTO3** and **Fabric** for launching and deploying instances in **AWS**.
- Responsible for estimating the cluster size, monitoring, and troubleshooting of the **Spark data bricks** cluster.
- Developed **PowerShell** scripts and ARM templates to automate the provisioning and deployment process.
- Gathered Client requirements and converting them into the Technical Specifications and developed Web forms using **C#.NET**.
- Successfully created **Kubernetes** pipeline of deployment & operation activities where all code is written in **Java, C#, python** & stored into bitbucket, for staging & testing purpose.
- Developed customer facing web application using **ASP.NET 4.0 C#** and convert to **XML data file**.
- Implemented cluster services using **Docker** and using **AWS ECS** and **Kubernetes services (EKS)** to manage local deployments in **Kubernetes** by building a self-hosted Kubernetes cluster using Jenkins CI/CD pipeline.
- Experience in infrastructure as a code using **terraform & Azure ARM templates**.
- Worked closely with the cloud teams to build and deploy VM's using Open stack and **VMware**.
- Familiar with **helm charts** for deployment manager to use of **charts** and templates for listed file names.
- Experienced working in **Istio** installation to enable **Node to Node** encryption on **Azure Kubernetes service** for Security requirement that intercepts all network communication between micro services.

- Implemented **Twist lock** for rule-based access control policy system for **Docker** and **Kubernetes** containers to scan monitor events, runtime, vulnerabilities, Compliance for containers, images, Hosts, Registry, **Jenkins Jobs**.

Environment: Azure, Terraform, Jenkins, Kubernetes, PostgreSQL, Docker, Spark Data Frame AppAssure, Datadog, Jira, Confluence, PowerShell `Windows, IIS, Python, Splunk, Grafana, Prometheus, Twist lock, Jenkins, git, Ansible.

AWS DevOps/SRE Engineer

Mastercard, St Louis, MO

Aug 2017 – June 2018

Responsibilities:

- Experience in creating the company's **DevOps** strategy in a mix environment of Linux (RHEL, Ubuntu, CentOS) servers along with creating and implementing a cloud strategy.
- Represent the SRE organization in design reviews and operational readiness exercises for new and existing services.
- Experience in migrating on-premise data center to **AWS** cloud using VM Import/Export, **AWS** Data Migration Services.
- Configured **Jenkins** as a build engine to build and deploy applications to **DEV, QA, UAT** and **PROD** environments.
- Perform periodic on-call duty as part of the SRE team.
- Build and deployed Docker images on **AWS ECS** and automated CI/CD pipeline.
- Used **AWS CLI** to suspend an **AWS Lambda** function processing an Amazon **Kinesis** stream, then to resume it again.
- Experienced on **Docker** and **Ansible** to build automation pipeline and **Continuous Deployment** for code using Jenkins and wrote **Ansible** Playbooks to automate AWS services like launching **EC2**, Provisioning **IAM**, **Ansible** Servers using **YAML scripting**.
- Extensively Worked on **Docker** service rolling updates to implement **zero downtime PROD** deployments and worked with **Docker Trusted Registry** as repository for our **Docker** images and worked with **Docker swarm**.
- Installed and deployed **VMware** ESX containers for the **VMCloud** and **VSphere**.
- Developed backup and recovery engine for VM backup/recovery using VMware vSphere APIs, **Golang** programming language also Contributed source code in **Golang** to developing an automation framework.

Environment: Azure, Aws, Docker, Swarm, Jenkins, Ansible, Jira, GCP, Confluence chef, Git, Lambda, Git-Hub, Maven, PowerShell Windows, Terraform, SRE, JIRA, Apache Tomcat, Shell Script, Python, Linux, Dynatrace, Splunk.

DevOps/Cloud Engineer

SP Soft (Hyderabad), India

June 2013 – Dec 2015

Responsibilities:

- Experience in using Cloud Infrastructure management and Implementation Working experience on various **Azure** services like Compute (Web Roles, Worker Roles), **Azure** Websites. Caching, SQL **Azure**, NoSQL, Storage, Network services, **Azure** Active Directory, Scheduling, Auto Scaling, and Power Shell Automation.
- Extensive working experience with different **SDLC** methodologies such as **Agile** and **Waterfall** with an ability to be creative and to take self-initiatives to execute/manage multiple projects in parallel during time critical situations.

- Deployed **Azure IaaS** Virtual Machines (VM's) and **PaaS** role instance's (Cloud Services) into secure VNets and subnets, designed VNets and Subscriptions to confirm to **Azure** Network Limits.
- Experience in migrating on-premise data center to **Aws** cloud using VM Import/Export, **Aws** Data Migration Services.
- Maintained the user accounts (**IAM**), **Cloud SQL**, **Cloud DNS**, **VPC**, **RDB**, Cloud Datastore Cloud Bigtable, **SQS** and **Cloud Pub/Sub** services in **Aws**.
- Designed and implementing **Aws** Cloud Infrastructure by creating **templates** for **Aws** platform also used **Terraform** to deploy the infrastructure necessary to **create development**, test and **production environments**.
- Configured **Jenkins** as a build engine to build and deploy applications to **DEV**, **QA**, **UAT** and **PROD** environments.
- Configured in setting up **CI/CD** pipeline integrating various tool with **Cloud Bees Jenkins** to build and run **Terraform** script **templates** to create infrastructure in **Azure**.
- Worked on **Power Shell scripts** to automate the **Azure Cloud system** in creation of Resource groups, Web Applications, **Azure Storage Blobs** & Tables, firewall rules and used **Python scripts** to automate day to day administrative tasks.
- Experienced managing release planning and **branching** strategy of GIT servers and worked on creating repositories in **GIT** Stash for multiple applications configured **GIT** repositories in CI setup in Jenkins and Injected **Groovy** scripts in Jenkins for dashboard and customized email triggers.
- Experienced on **Docker** and **Ansible** to build automation pipeline and Continuous Deployment for code using Jenkins and wrote Ansible Playbooks to automate Ansible Servers using **YAML scripting**.

Environment Azure, Aws, Docker, Swarm, Jenkins, Ansible, Jira, Confluence, Git, Git-Hub, Maven, MySQL, PowerShell Windows, Terraform, JIRA, SRE, Apache Tomcat, Shell Script, Python, Linux, Dynatrace, Splunk.

EDUCATION

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|----------------------------------|---|------------|
| • MASTER'S IN COMPUTER SCIENCE | FLORIDA STATE UNIVERSITY, TALLAHASSEE, FL | 2015- 2017 |
| • BACHELOR'S IN COMPUTER SCIENCE | JNTUH, INDIA | 2009-2013 |